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NEW DEVICES SHORTEN PRODUCTION CYCLE, INCREASE ACCURACY

INSTALL CONVEYERS IN MACHINE TOOL PLANT -- Kishinev, Sovetskaya Moldaviya, 14 May 53

A conveyer for painting machine tools has been put into operation at the Moscow Krasny Proletariy Plant imeni Yefremov. This has improved the quality of machines, shortened the painting cycle, and improved the working conditions.

The installation of a new main conveyer for assembling lathes is being completed at the enterprise. Upon putting it into operation, the production cycle will be further shortened.

In 1953, the plant has manufactured new high-production attachments and dies of more than 700 type designations.

NEW CHUCK DECREASES HANDLING TIME -- Alma-Ata, Kazakhstanskaya Pravda, 26 Apr 53

Until recently, the efforts of Soviet innovators have been concentrated on shortening cycle time. Very little attention had been given to shortening handling time.

P. Gor'kov, foreman of the machine shop at the Alma-Ata Machinery Plant of Glavenergozapchast' (Main Administration for Spare Parts and Repairs) of the Ministry of Electric Power Stations and Electrical Industry, perfected a three-jaw lathe chuck which has mechanized the clamping of parts. He also built a machine tool with the semiautomatic chuck for testing purposes.

The plant technical council decided to rebuild one of the DIP-200 lathes at the machine shop in accordance with Gor'kov's invention. To fasten the part, it was necessary only to turn a lever. In testing the modernized machine tool, it was found that whereas this operation formerly took 18 seconds, it now takes only 3 seconds.

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The new chuck does not require an additional motor. The clamping and releasing of the jaws is accomplished by the idling of the electric motor, through a special transmission.

The attachment designed by Gor'kov consists of a drive, chuck, and control mechanism. The drive is a system of gears with a clutch and spring. It transmits power to the chuck for clamping the part. The control mechanism is similar to the quadrant of an ordinary lathe.

The manufacture of the attachment and re-equipment of lathes according to the new method do not require large material expenditures.

Operation of a lathe modernized in this way is not complicated. Lathe operators who have mastered Gor'kov's method have nearly tripled their labor productivity. -- B. Blokhin, chief engineer, Alma-Ata Machinery Plant, Ministry of Electric Power Stations and Electrical Industry

BEGIN MANUFACTURE OF VIBRATION DAMPERS -- Petrozavodsk, Leninskoye Znamya, 15 May 53

Tool makers at the Kiev Machine Tool Building Plant imeni Gor'kiy are now manufacturing a large quantity of vibration dampers designed by Ryzhkov for the enterprise's machine shops.

USES SPECIAL GRINDING MACHINES AND VIBRATION DAMPER AT TEXTILE MACHINE PLANT -- Petrozavodsk, Leninskoye Znamya, 20 May 53

Workers at the Penztekstil'mash Plant have improved the technology for manufacturing 4-meter shafts 30-50 millimeters in diameter. The shafts are first turned on a lathe, after which they are finished on specially-built centerless grinding machines. This has decreased the processing time from 35 hours, 10 minutes to 6 hours, 30 minutes.

Novikov and Petrunov, lathe operators, are the first in Penza to equip their machine tools with vibration dampers designed by Ryzhkov. A gives a brief description of the vibration damper. A detailed description and sketches of the vibration damper are available in Trud, 21 May 1953 and in Stanki i Instrument, March 1953, page 22.7

APPARATUS FOR DYNAMIC BALANCING OF ROTORS -- Moscow, Vestnik Mashinostroyeniya, Mar 53

Associates of the Experimental Scientific Research Institute of Metal-Cutting Machine Tools and the Leningrad branch of the Giproenergoprom Planning Institute, together with workers of the Leningrad Elektrosila Plant, have developed in a short period a new apparatus with high accuracy for dynamic balancing of rotors for turbogenerators.

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